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SEQUENCE LISTING

5 <110> Matthias Krause
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10 <120> Methods for Altering T-Cell and Macrophage Activation
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	gacatgggag	atgaagttta	cgatgatgtg	gatacctctg	atttccctgt	ttcatcagca	2160
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40	attagagtcc	tatattcaac	taaagttaca	acttccataa	cttctaaaaa	gtggggaacc	2340
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	aaagttctct	gcagaaatga	agaagggaaa	tatgggttatg	tccttcggag	ttacctagcg	2460
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<211> 256

<212> PRT

<213> Mus musculus

<400> 6

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	Glu	Asn	Gln	Arg	Leu	Phe	Glu	Leu	Leu	Gly	Arg	Lys	Cys	Trp	Thr	Leu
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	His	Trp	Thr	Met	Glu	His	Cys	Gly	Ala	Val	Cys	Phe	Val	Lys	Asp	Asn
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					85					90					95	
5	Leu	Leu	Trp	Glu	Gln	Glu	Leu	Tyr	Ser	Gln	Leu	Val	Tyr	Leu	Thr	Pro
				100					105					110		
	Thr	Pro	Phe	Phe	His	Thr	Phe	Ala	Gly	Asp	Asp	Cys	Gln	Val	Gly	Leu
			115					120					125			
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	Glu	Lys	Ile	Gln	Lys	Arg	Asn	Gln	Arg	Gln	Ser	Gly	Glu	Arg	Arg	Gln
						150					155					160
	Leu	Pro	Pro	Pro	Pro	Ala	Pro	Ile	Asn	Glu	Glu	Arg	Arg	Gly	Gly	Leu
					165					170					175	
15	Pro	Pro	Val	Pro	Pro	His	Pro	Gly	Gly	Asp	His	Gly	Gly	Pro	Ser	Gly
				180					185					190		
	Gly	Pro	Leu	Ser	Leu	Gly	Leu	Val	Thr	Val	Asp	Ile	Gln	Asn	Pro	Asp
			195					200					205			
20	Ile	Thr	Ser	Ser	Arg	Tyr	Arg	Gly	Leu	Pro	Ala	Pro	Gly	Pro	Gly	Pro
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	Thr	Asp	Lys	Lys	Arg	Ser	Gly	Lys	Lys	Lys	Ile	Ser	Lys	Ala	Asp	Ile
		225				230					235					240
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 <211> 17
 <212> PRT
 <213> Homo sapiens

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<400> 7
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 35 Val

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<210> 8
 <211> 7
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 <213> Listeria monocytogenes

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<220>
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 <223> Xaa is Phe, Leu, or Trp

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<400> 8
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	Ser	Glu	Asp	Ser	Ser	Leu	Asn	Thr	Asp	Glu	Trp	Glu	Glu	Glu	Lys	Thr
			35				40					45				
5	Glu	Glu	Gln	Pro	Ser	Glu	Val	Asn	Thr	Gly	Pro	Arg	Tyr	Glu	Thr	Ala
			50				55					60				
	Arg	Glu	Val	Ser	Ser	Arg	Asp	Ile	Lys	Glu	Leu	Glu	Lys	Ser	Asn	Lys
	65					70				75					80	
	Val	Arg	Asn	Thr	Asn	Lys	Ala	Asp	Leu	Ile	Ala	Met	Leu	Lys	Glu	Lys
10					85				90						95	
	Ala	Glu	Lys	Gly	Pro	Asn	Ile	Asn	Asn	Asn	Asn	Ser	Glu	Gln	Thr	Glu
				100					105					110		
	Asn	Ala	Ala	Ile	Asn	Glu	Glu	Ala	Ser	Gly	Ala	Asp	Arg	Pro	Ala	Ile
			115					120					125			
15	Gln	Val	Glu	Arg	Arg	His	Pro	Gly	Leu	Pro	Ser	Asp	Ser	Ala	Ala	Glu
		130				135						140				
	Ile	Lys	Lys	Arg	Arg	Lys	Ala	Ile	Ala	Ser	Ser	Asp	Ser	Glu	Leu	Glu
	145					150						155				160
	Ser	Leu	Thr	Tyr	Pro	Asp	Lys	Pro	Thr	Lys	Val	Asn	Lys	Lys	Lys	Val
20					165					170					175	
	Ala	Lys	Glu	Ser	Val	Ala	Asp	Ala	Ser	Glu	Ser	Asp	Leu	Asp	Ser	Ser
				180					185					190		
	Met	Gln	Ser	Ala	Asp	Glu	Ser	Ser	Pro	Gln	Pro	Leu	Lys	Ala	Asn	Gln
			195					200					205			
25	Gln	Pro	Phe	Phe	Pro	Lys	Val	Phe	Lys	Lys	Ile	Lys	Asp	Ala	Gly	Lys
		210				215						220				
	Trp	Val	Arg	Asp	Lys	Ile	Asp	Glu	Asn	Pro	Glu	Val	Lys	Lys	Ala	Ile
	225					230					235					240
	Val	Asp	Lys	Ser	Ala	Gly	Leu	Ile	Asp	Gln	Leu	Leu	Thr	Lys	Lys	Lys
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	Ser	Glu	Glu	Val	Asn	Ala	Ser	Asp	Phe	Pro	Pro	Pro	Pro	Thr	Asp	Glu
				260					265					270		
	Glu	Leu	Arg	Leu	Ala	Leu	Pro	Glu	Thr	Pro	Met	Leu	Leu	Gly	Phe	Asn
			275					280					285			
35	Ala	Pro	Ala	Thr	Ser	Glu	Pro	Ser	Ser	Phe	Glu	Phe	Pro	Pro	Pro	Pro
		290				295						300				
	Thr	Asp	Glu	Glu	Leu	Arg	Leu	Ala	Leu	Pro	Glu	Thr	Pro	Met	Leu	Leu
	305					310					315					320
	Gly	Phe	Asn	Ala	Pro	Ala	Thr	Ser	Glu	Pro	Ser	Ser	Phe	Glu	Phe	Pro
40					325					330					335	
	Pro	Pro	Pro	Thr	Glu	Asp	Glu	Leu	Glu	Ile	Ile	Arg	Glu	Thr	Ala	Ser
				340					345					350		
	Ser	Leu	Asp	Ser	Ser	Phe	Thr	Arg	Gly	Asp	Leu	Ala	Ser	Leu	Arg	Asn
			355					360					365			
45	Ala	Ile	Asn	Arg	His	Ser	Gln	Asn	Phe	Ser	Asp	Phe	Pro	Pro	Ile	Pro
		370					375					380				
	Thr	Glu	Glu	Glu	Leu	Asn	Gly	Arg	Gly	Gly	Arg	Pro	Thr	Ser	Glu	Glu
	385					390					395					400
	Phe	Ser	Ser	Leu	Asn	Ser	Gly	Asp	Phe	Thr	Asp	Asp	Glu	Asn	Ser	Glu
50					405					410					415	
	Thr	Thr	Glu	Glu	Glu	Ile	Asp	Arg	Leu	Ala	Asp	Leu	Arg	Asp	Arg	Gly
				420					425					430		
	Thr	Gly	Lys	His	Ser	Arg	Asn	Ala	Gly	Phe	Leu	Pro	Leu	Asn	Pro	Phe
			435					440					445			
55	Ala	Ser	Ser	Pro	Val	Pro	Ser	Leu	Ser	Pro	Lys	Val	Ser	Lys	Ile	Ser
		450					455					460				
	Asp	Arg	Ala	Leu	Ile	Ser	Asp	Ile	Thr	Lys	Lys	Thr	Pro	Phe	Lys	Asn
	465					470					475					480
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[illegible]

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<212> PRT
<213> Mus musculus

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35 40 45
Ala Gly Pro Ser Ser Met Pro Lys Phe Gly Thr Thr Lys Pro Pro Leu
50 55 60
Ala Ala Lys Pro Thr Tyr Glu Glu Lys Pro Glu Lys Glu Pro Lys Pro
15 65 70 75 80
Pro Phe Leu Lys Pro Thr Gly Gly Ser Pro Arg Phe Gly Thr Gln Pro
85 90 95
Asn Ser Val Ser Arg Asp Pro Glu Val Lys Val Gly Phe Leu Lys Pro
100 105 110
20 Val Ser Pro Lys Pro Thr Ser Leu Thr Lys Glu Asp Ser Lys Pro Val
115 120 125
Val Leu Arg Pro Pro Gly Asn Lys Leu His Asn Leu Asn Gln Glu Ser
130 135 140
Asp Leu Lys Thr Pro Gly Pro Lys Pro Gly Pro Ala Pro Pro Val Pro
25 145 150 155 160
Glu Asn Glu Leu Lys Pro Gly Phe Ser Lys Val Ala Gly Ala Lys Ser
165 170 175
Lys Phe Met Pro Ala Ala Gln Asp Thr Asp Ser Lys Pro Arg Phe Pro
180 185 190
30 Arg His Thr Phe Gly Gln Lys Pro Ser Leu Ser Thr Glu Asp Ser Gln
195 200 205
Glu Glu Asn Thr Ser Lys Asn Val Pro Val Gln Lys Gly Ser Pro Val
210 215 220
Gln Leu Gly Ala Lys Ser Lys Gly Ala Pro Phe Lys Pro Pro Lys Glu
35 225 230 235 240
Asp Pro Glu Asp Lys Asp His Gly Ala Pro Ser Ser Pro Phe Pro Gly
245 250 255
Val Val Leu Lys Pro Ala Ala Ser Arg Gly Ser Pro Gly Leu Ser Lys
260 265 270
40 Asn Phe Glu Glu Lys Lys Glu Asp Arg Lys Thr Asp Leu Ala Lys Asn
275 280 285
Ile Phe Leu Asn Lys Leu Asn Gln Glu Glu Pro Ala Arg Phe Pro Lys
290 295 300
Ala Pro Ser Lys Leu Thr Ala Gly Thr Pro Trp Gly Gln Ser Gln Glu
45 305 310 315 320
Lys Glu Gly Asp Lys Asn Ser Ala Thr Pro Lys Gln Lys Ala Leu Pro
325 330 335
Pro Leu Ser Val Leu Gly Pro Pro Pro Pro Lys Pro Asn Arg Pro Pro
340 345 350
50 Asn Val Asp Leu Thr Arg Phe Arg Lys Ala Asp Ser Ala Asn Ser Ala
355 360 365
Thr Lys Ser Gln Thr Pro Tyr Ser Thr Thr Ser Leu Pro Pro Pro Pro
370 375 380
Pro Thr His Pro Ala Ser Gln Pro Pro Leu Pro Ala Ser His Pro Ala
55 385 390 395 400
His Pro Pro Val Pro Ser Leu Pro Pro Arg Asn Ile Lys Pro Pro Leu
405 410 415
Asp Leu Lys His Pro Ile Asn Asp Glu Asn Gln Asp Gly Val Met His
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	Ser	Asp	Gly	Thr	Gly	Asn	Leu	Glu	Glu	Glu	Gln	Glu	Ser	Glu	Gly	Glu
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	Thr	Tyr	Glu	Asp	Ile	Asp	Ser	Ser	Lys	Glu	Arg	Asp	Lys	Lys	Arg	Glu
		450				455						460				
5	Lys	Glu	Glu	Lys	Lys	Arg	Leu	Glu	Leu	Glu	Arg	Lys	Glu	Gln	Lys	Glu
	465					470					475					480
	Arg	Glu	Lys	Lys	Glu	Gln	Glu	Leu	Lys	Lys	Lys	Phe	Lys	Leu	Thr	Gly
					485					490						495
10	Pro	Ile	Gln	Val	Ile	His	His	Ala	Lys	Ala	Cys	Cys	Asp	Val	Lys	Gly
				500					505					510		
	Gly	Lys	Asn	Glu	Leu	Ser	Phe	Lys	Gln	Gly	Glu	Asp	Ile	Glu	Ile	Ile
			515					520					525			
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		530				535						540				
15	Gly	Ser	Tyr	Gly	Tyr	Ile	Lys	Thr	Thr	Ala	Val	Glu	Ile	Asp	Tyr	Asp
	545					550					555					560
	Ser	Leu	Lys	Arg	Lys	Lys	Asn	Ser	Leu	Asn	Ala	Val	Pro	Pro	Arg	Leu
					565					570						575
20	Val	Glu	Asp	Asp	Gln	Asp	Val	Tyr	Asp	Asp	Val	Ala	Glu	Gln	Asp	Ala
			580						585					590		
	Pro	Asn	Ser	His	Gly	Gln	Ser	Gly	Ser	Gly	Gly	Met	Phe	Pro	Pro	Pro
		595						600					605			
	Pro	Thr	Asp	Asp	Glu	Ile	Tyr	Asp	Gly	Ile	Glu	Glu	Glu	Asp	Asp	Asp
		610				615						620				
25	Asp	Gly	Ser	Val	Pro	Gln	Val	Asp	Glu	Lys	Thr	Asn	Ala	Trp	Ser	Trp
	625					630					635					640
	Gly	Ile	Leu	Lys	Met	Leu	Lys	Gly	Lys	Asp	Asp	Arg	Lys	Lys	Ser	Ile
					645					650						655
30	Arg	Glu	Lys	Pro	Lys	Val	Ser	Glu	Ser	Asp	Asn	Asn	Glu	Gly	Ser	Ser
			660						665					670		
	Leu	Pro	Ser	Gln	His	Lys	Gln	Leu	Asp	Val	Gly	Glu	Glu	Val	Tyr	Asp
		675						680					685			
	Asp	Val	Asp	Ala	Ser	Asp	Phe	Pro	Pro	Pro	Pro	Ala	Glu	Met	Ser	Gln
		690				695						700				
35	Gly	Met	Ser	Val	Gly	Arg	Ala	Lys	Thr	Glu	Glu	Lys	Asp	Pro	Lys	Lys
	705					710					715					720
	Leu	Lys	Lys	Gln	Glu	Lys	Glu	Glu	Lys	Asp	Leu	Arg	Lys	Lys	Phe	Lys
				725						730						735
40	Tyr	Asp	Gly	Glu	Ile	Arg	Val	Leu	Tyr	Ser	Thr	Lys	Val	Ala	Ser	Ser
			740						745					750		
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		770				775					780					
45	Arg	Asn	Glu	Glu	Gly	Lys	Tyr	Gly	Tyr	Val	Leu	Arg	Ser	Tyr	Leu	Val
	785					790					795					800
	Asp	Asn	Asp	Gly	Glu	Ile	Tyr	Asp	Asp	Ile	Ala	Asp	Gly	Cys	Ile	Tyr
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<212> PRT

55 <213> Homo sapiens

<400> 15

Phe Pro Pro Pro Pro

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5